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JP2000262069A2: GATE POWER SUPPLY CIRCUIT

Title: JP2000262069A2:

GATE POWER SUPPLY CIRCUIT

Country:

Kind: JP Japan

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Assignee: SAWAFUJI ELECTRIC CO LTD

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Abstract: JP2000262069A2:

PROBLEM TO BE SOLVED: To attain space saving and cost reduction by charging energy stored in a capacitor one after another, and supplying it to a gate driving circuit of a switching element group of a static AC-DC power conversion circuit.

SOLUTION: The switching element groups FET1, 4 of a lower arm of a bridge type static power conversion circuit are driven by energy stored in the first capacitors 31, 33. Charging is conducted by the second capacitors 32, 34 through the first diodes 52, 54 from a control power source. The switching element groups FET2, 4 of an upper arm are driven by the energy. At this time, the third capacitor 63 is charged through the second diode 62 from the second capacitors 32, 34. The gate of a thyristor 10 of a static type AC-DC power conversion circuit connected with the forward stage of a bridge type DC-AC power conversion circuit is driven by the energy. It is thus possible to attain space saving and cost reduction by disuse of an insulation transformer.

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